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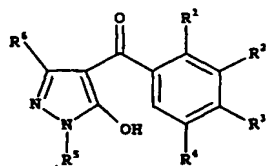
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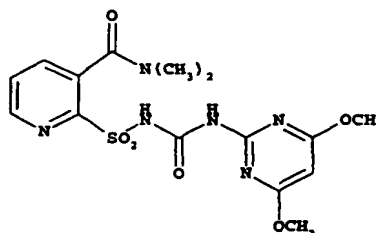
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNERGISTICALLY ACTING HERBICIDAL MIXTURES



(I)



(II)

(57) Abstract: A synergistic herbicidal mixture comprising A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula (I) in which the variables have the following meanings: R<sup>1</sup>, R<sup>3</sup> are halogen, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl; R<sup>2</sup> is a optionally substituted heterocyclic radical selected from the group: isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl and 4,5-dihydroisoxazol-5-yl; R<sup>4</sup> is hydrogen, halogen or alkyl; R<sup>5</sup> is alkyl; R<sup>6</sup> is hydrogen or alkyl; or one of its environmentally compatible salts; and B) the compound of formula (II) or one of its environmentally compatible salts; and C) at least one further herbicidal compound from the group of the acetolactate synthase inhibitors (ALS), lipid biosynthesis inhibitors and photosynthesis inhibitors; in a synergistically effective amount. Compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/07992

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N43/80

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 65314 A (BASF AG) 23 December 1999 (1999-12-23) page 1, line 1 - page 3, line 25 page 4, line 4 - line 22 page 5, line 3 - line 14 page 5, line 38 - page 6, line 13 table 1 page 19, line 29 - line 35 page 48-49; table 2 tables 11-17, 19-23, 46-51, 58-70, 76, 83, 84 -----	1-30



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

3 March 2004

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20.03.04

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# INTERNATIONAL SEARCH REPORT

national application No.  
PCT/EP 03/07992

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9 (partially), 10-12, 21-22, 25-30 (partially)

A synergistic herbicidal mixture comprising at least one 3-heterocyclyl-substituted benzoyl derivative of the formula (I), nicosulfuron and an acetolactate synthase inhibitor

2. Claims: 1-9 (partially), 13-15, 23-30 (partially)

A synergistic herbicidal mixture comprising at least one 3-heterocyclyl-substituted benzoyl derivative of the formula (I), nicosulfuron and a lipid biosynthesis inhibitor

3. Claims: 1-9 (partially), 16-20, 25-30 (partially)

A synergistic herbicidal mixture comprising at least one 3-heterocyclyl-substituted benzoyl derivative of the formula (I), nicosulfuron and a photosynthesis inhibitor

## INTERNATIONAL SEARCH REPORT

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